USGS science for a changing world

Earthquake Shaking — Green Alert

GSN ANSS USAID FROM THE AMERICAN PEOPLE

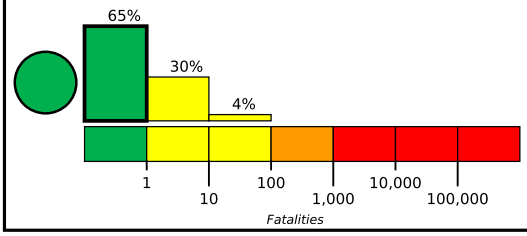
M 4.5, 5 km SSE of Alexandria, Jamaica

Origin Time: 2020-08-26 12:28:09 UTC (Wed 07:28:09 local)
Location: 18.2568° N 77.3380° W Depth: 10.0 km

PAGER Version 1

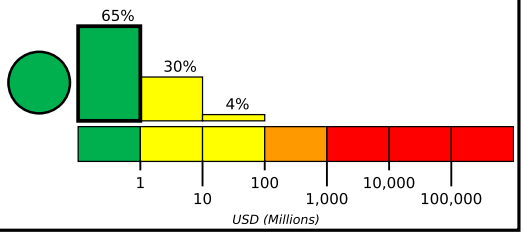
Created: 15 hours, 56 minutes after earthquake

Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

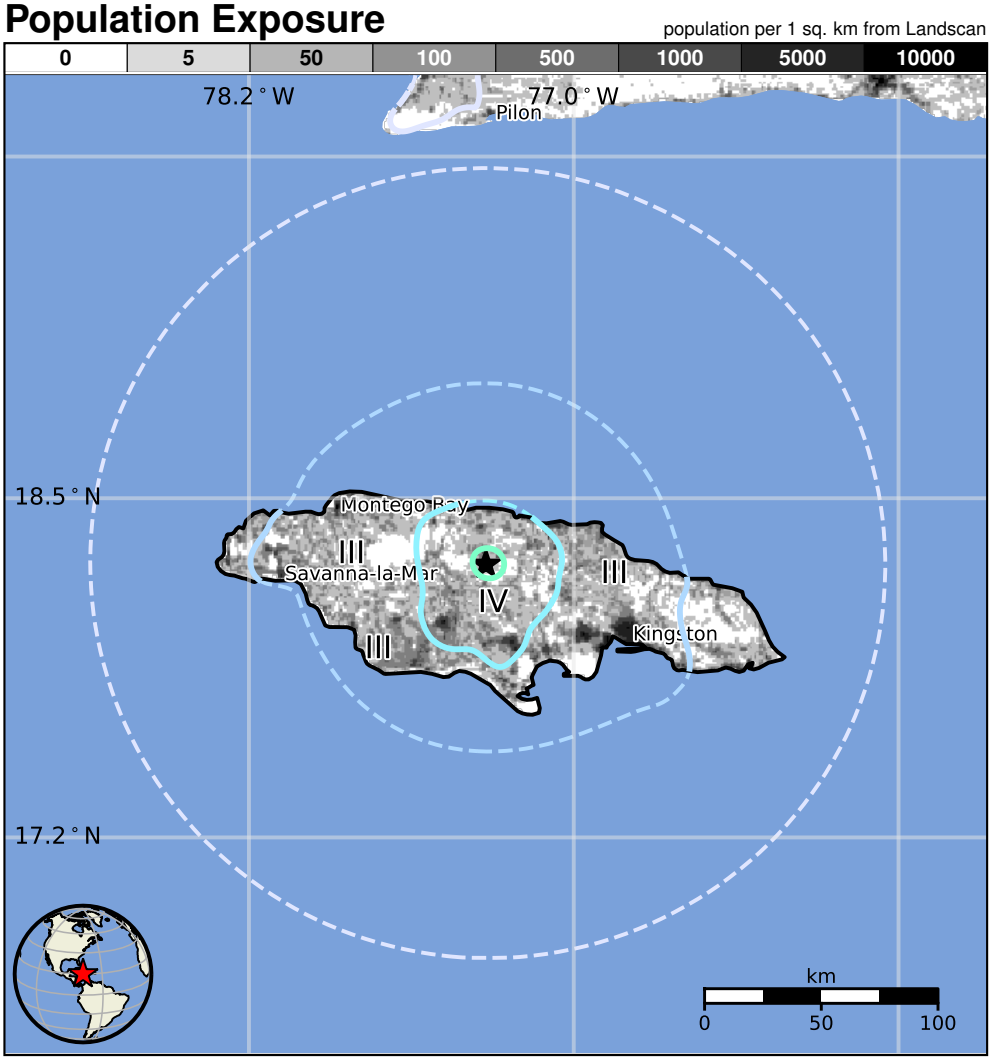


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		443k*	2,232k	641k	18k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are vulnerable to earthquake shaking, though resistant structures exist. The predominant vulnerable building types are mud wall and adobe block construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1993-01-13	81	5.5	VII(2k)	1
1992-05-25	161	6.8	VII(96k)	0
1976-02-19	184	5.9	VII(5k)	1

Selected City Exposure

from GeoNames.org

MMI	City	Population
V	Alexandria	2k
IV	Kellits	3k
IV	Williamsfield	3k
IV	Mandeville	47k
IV	Limit	2k
IV	Chapelton	5k
IV	May Pen	45k
III	Spanish Town	145k
III	**Kingston**	**938k**
III	**Montego Bay**	**83k**
I	Santiago de Cuba	556k

bold cities appear on map. (k=x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

https://earthquake.usgs.gov/earthquakes/eventpage/us7000bd5r#pager

Event ID: us7000bd5r